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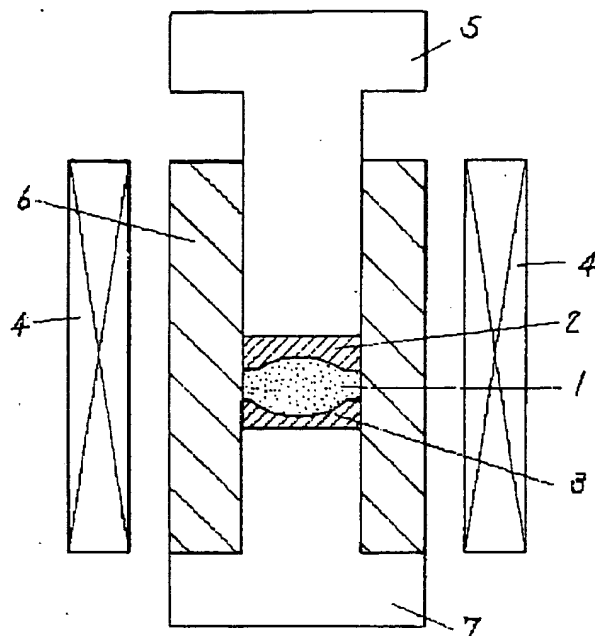
APPLICATION DATE : 24-06-91
APPLICATION NUMBER : 03151412

APPLICANT : MATSUSHITA ELECTRIC IND CO LTD;

INVENTOR : YOSHIDA AKIHIKO;

INT.CL. : C03B 11/00 C03C 4/10

TITLE : PRODUCTION OF
INFRARED-TRANSMITTING LENS



ABSTRACT : PURPOSE: To provide a process for forming a press-formable non-toxic lens transmitting infrared ray and visible light.

CONSTITUTION: A chalcogenide glass 1 is hot-pressed with hot molds 2, 3 having polished optical surfaces. The molds 2, 3 are made of a metallic material having a thermal expansion coefficient nearly equal to that of the chalcogenide glass 1. The forming of the lens is carried out in an inert gas atmosphere to prevent the oxidation of the glass. The breakage of the lens during the cooling process after press-forming can be prevented by this process. The hot-press forming of lens enables the production of high-precision lens in high productivity.

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